1646

#29

```
                    RAW SEQUENCE LISTING            DATE: 12/12/2000
                    PATENT APPLICATION:  US/09/157,289E     TIME: 12:52:44

                    Input Set : A:\P1134R2 REVISED.txt
                    Output Set: N:\CRF3\12122000\I157289E.raw

    3  <110> APPLICANT: ASHKENAZI, AVI J
    4         BOTSTEIN, DAVID
    5         DODGE, KELLY H.
    6         GURNEY, AUSTIN L.
    7         KIM, KYUNG JIN
    8         LAWRENCE, DAVID A.
    9         PITTI, ROBERT
   10         ROY, MARGARET A
   11         TUMAS, DANIEL B
   12         WOOD, WILLIAM I.
   14  <120> TITLE OF INVENTION: DcR3 Polypeptide, A TNFR Homolog
   16  <130> FILE REFERENCE: P1134R2 REVISED
   18  <140> CURRENT APPLICATION NUMBER: US 09/157,289E
   19  <141> CURRENT FILING DATE: 1998-09-18
   21  <150> PRIOR APPLICATION NUMBER: US 60/059,288
   22  <151> PRIOR FILING DATE: 1997-09-18
   24  <150> PRIOR APPLICATION NUMBER: US 60/094,640
   25  <151> PRIOR FILING DATE: 1998-07-30
   27  <160> NUMBER OF SEQ ID NOS: 18
   29  <210> SEQ ID NO: 1
   30  <211> LENGTH: 300
   31  <212> TYPE: PRT
   32  <213> ORGANISM: Homo sapiens
   34  <400> SEQUENCE: 1
   35  Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys Leu Val
   36   1               5                  10                  15
   38  Leu Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly Val
   39              20                  25                  30
   41  Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu
   42              35                  40                  45
   44  Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg
   45              50                  55                  60
   47  Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro
   48              65                  70                  75
   50  Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr
   51              80                  85                  90
   53  Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Ala Arg Ala Cys
   54              95                  100                 105
   56  His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe
   57              110                 115                 120
   59  Ala His Ala Gly Phe Cys Leu Glu His Ala Ser Cys Pro Pro Gly
   60              125                 130                 135
   62  Ala Gly Val Ile Ala Pro Gly Thr Pro Ser Gln Asn Thr Gln Cys
   63              140                 145                 150
   65  Gln Pro Cys Pro Pro Gly Thr Phe Ser Ala Ser Ser Ser Ser Ser
   66              155                 160                 165
   68  Glu Gln Cys Gln Pro His Arg Asn Cys Thr Ala Leu Gly Leu Ala
```

RAW SEQUENCE LISTING   DATE: 12/12/2000
PATENT APPLICATION: US/09/157,289E   TIME: 12:52:44

Input Set : A:\P1134R2 REVISED.txt
Output Set: N:\CRF3\12122000\I157289E.raw

```
69                  170                 175                 180
71  Leu Asn Val Pro Gly Ser Ser Ser His Asp Thr Leu Cys Thr Ser
72                  185                 190                 195
74  Cys Thr Gly Phe Pro Leu Ser Thr Arg Val Pro Gly Ala Glu Glu
75                  200                 205                 210
77  Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe Gln Asp Ile Ser
78                  215                 220                 225
80  Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu Ala Pro Glu
81                  230                 235                 240
83  Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu Gln Leu
84                  245                 250                 255
86  Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp Gly
87                  260                 265                 270
89  Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met
90                  275                 280                 285
92  Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu Pro Val His
93                  290                 295                 300
95  <210> SEQ ID NO: 2
96  <211> LENGTH: 1114
97  <212> TYPE: DNA
98  <213> ORGANISM: Homo sapiens
100 <220> FEATURE:
101 <221> NAME/KEY: Unsure
102 <222> LOCATION: 1090
103 <223> OTHER INFORMATION: Unknown base
105 <400> SEQUENCE: 2
106   tccgcaggcg gaccgggggc aaaggaggtg gcatgtcggt caggcacagc 50
108   agggtcctgt gtccgcgctg agccgcgctc tccctgctcc agcaaggacc 100
110   atgagggcgc tggaggggcc aggcctgtcg ctgctgtgcc tggtgttggc 150
112   gctgcctgcc ctgctgccgg tgccggctgt acgcggagtg gcagaaacac 200
114   ccacctaccc ctggcgggac gcagagacag gggagcggct ggtgtgcgcc 250
116   cagtgccccc caggcacctt tgtgcagcgg ccgtgccgcc gagacagccc 300
118   cacgacgtgt ggccgtgtc caccgcgcca ctacacgcag ttctggaact 350
120   acctggagcg ctgccgctac tgcaacgtcc tctgcgggga gcgtgaggag 400
122   gaggcacggg cttgccacgc cacccacaac cgtgcctgcc gctgccgcac 450
124   cggcttcttc gcgcacgctg gtttctgctt ggagcacgca tcgtgtccac 500
126   ctggtgccgg cgtgattgcc ccgggcaccc ccagccagaa cacgcagtgc 550
128   cagccgtgcc ccccaggcac cttctcagcc agcagctcca gctcagagca 600
130   gtgccagccc caccgcaact gcacggccct gggcctggcc ctcaatgtgc 650
132   caggctcttc ctcccatgac accctgtgca ccagctgcac tggcttcccc 700
134   ctcagcacca gggtaccagg agctgaggag tgtgagcgtg ccgtcatcga 750
136   ctttgtggct ttccaggaca tctccatcaa gaggctgcag cggctgctgc 800
138   aggccctcga ggccccggag ggctggggtc cgacaccaag ggcgggccgc 850
140   gcggccttgc agctgaagct gcgtcggcgg ctcacggagc tcctgggggc 900
142   gcaggacggg gcgctgctgg tgcggctgct gcaggcgctg cgcgtggcca 950
144   ggatgcccgg gctggagcgg agcgtccgtg agcgcttcct ccctgtgcac 1000
146   tgatcctggc cccctcttat ttattctaca tccttggcac cccacttgca 1050
W-->  148   ctgaaagagg ctttttttta aatagaagaa atgaggtttn ttaaaaaaaa 1100
150   aaaaaaaaaa aaaa 1114
```

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RAW SEQUENCE LISTING                    DATE: 12/12/2000
PATENT APPLICATION:  US/09/157,289E      TIME: 12:52:44

Input Set : A:\P1134R2 REVISED.txt
Output Set: N:\CRF3\12122000\I157289E.raw

    152 <210> SEQ ID NO: 3
    153 <211> LENGTH: 491
    154 <212> TYPE: DNA
    155 <213> ORGANISM: Unknown
    157 <220> FEATURE:
    158 <223> OTHER INFORMATION: Unknown organism
    160 <220> FEATURE:
    161 <221> NAME/KEY: unsure
    162 <222> LOCATION: 62, 73, 86, 98
    163 <223> OTHER INFORMATION: unknown base
    165 <400> SEQUENCE: 3
    166  gccgagacag ccccacgacg tgtggcccgt gtccaccgcg ccactacacg 50
W--> 168  cagttctgga antaactgga gcnctgccgc tactgnaacg tcctctgngg 100
    170  ggagcgtgag gaggaggcac gggcttgcca cgccacccac aaccgtgcct 150
    172  gccgctgccg caccggcttc ttcgcgcacg ctggtttctg cttggagcac 200
    174  gcatcgtgtc cacctggtgc cggcgtgatt gccccgggca cccccagcca 250
    176  gaacacgcag tgcctagccg tgccccccag gcaccttctc agccagcagc 300
    178  tccagctcag agcagtgcca gccccaccgc aactgcacgg ccctgggcct 350
    180  ggccctcaat gtgccaggct cttcctccca tgacaccctg tgcaccagct 400
    182  gcactggctt ccccctcagc accagggtac caggagctga ggagtgtgag 450
    184  cgtgccgtca tcgactttgt ggctttccag gacatctcca t 491
    186 <210> SEQ ID NO: 4
    187 <211> LENGTH: 73
    188 <212> TYPE: DNA
    189 <213> ORGANISM: Unknown
    191 <220> FEATURE:
    192 <223> OTHER INFORMATION: Unknown organism
    194 <400> SEQUENCE: 4
    195  gccgagacag ccccacgacg tgtggcccgt gtccaccgcg ccactacacg 50
    197  cattctggaa ctacctggag cgc 73
    199 <210> SEQ ID NO: 5
    200 <211> LENGTH: 271
    201 <212> TYPE: DNA
    202 <213> ORGANISM: Unknown
    204 <220> FEATURE:
    205 <223> OTHER INFORMATION: Unknown organism
    207 <220> FEATURE:
    208 <221> NAME/KEY: unsure
    209 <222> LOCATION: 42, 62, 73, 86, 98, 106, 120, 122, 153, 167, 184, 220, 233
    210 <223> OTHER INFORMATION: unknown base
    212 <400> SEQUENCE: 5
W--> 213  gccgagacag ccccacgacg tgtggcccgt gtccaccgcg cnactacacg 50
W--> 215  cagttctgga antaactgga gcnctgccgc tactgnaacg tcctctgngg 100
W--> 217  ggagcntgag gaggaggcan gngcttgcca cgccacccac aaccgcgcct 150
W--> 219  gcngctgcag caccggnttc ttcgcgcacg ctgntttctg cttggagcac 200
W--> 221  gcatcgtgtc cacctggtgn cggcgtgatt gcnccgggca ccccagcca 250
    223  gaacacgcat gcaaagccgt g 271
    225 <210> SEQ ID NO: 6
    226 <211> LENGTH: 201
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```
                    RAW SEQUENCE LISTING              DATE: 12/12/2000
                    PATENT APPLICATION: US/09/157,289E    TIME: 12:52:44

                    Input Set : A:\P1134R2 REVISED.txt
                    Output Set: N:\CRF3\12122000\I157289E.raw

       227 <212> TYPE: DNA
       228 <213> ORGANISM: Unknown
       230 <220> FEATURE:
       231 <223> OTHER INFORMATION: Unknown organism
       233 <220> FEATURE:
       234 <221> NAME/KEY: unsure
       235 <222> LOCATION: 182
       236 <223> OTHER INFORMATION: unknown base
       238 <400> SEQUENCE: 6
       239  gcagttctgg aactacctgg agcgctgccg ctactgcaac gtcctctgcg 50
       241  gggagcgtga ggaggaggca cgggcttgcc acgccaccca caaccgtgcc 100
       243  tgccgctgcc gcaccggctt cttcgcgcac gcggtttct gcttggagca 150
W--> 245  cgcatcgtgt ccacctggtg ccggcgtgat tnccccgggc accccagcc 200
       247  a 201
       249 <210> SEQ ID NO: 7
       250 <211> LENGTH: 277
       251 <212> TYPE: DNA
       252 <213> ORGANISM: Unknown
       254 <220> FEATURE:
       255 <223> OTHER INFORMATION: Unknown organism
       257 <220> FEATURE:
       258 <221> NAME/KEY: unsure
       259 <222> LOCATION: 142
       260 <223> OTHER INFORMATION: unknown base
       262 <400> SEQUENCE: 7
       263  gaggggcccc caggagtggt ggccggaggt gtggcagggg tcaggttgct 50
       265  ggtcccagcc ttgcaccctg agctaggaca ccagttcccc tgaccctgtt 100
W--> 267  cttccctcct ggctgcaggc acccccagcc agaacacgca gnccagccgt 150
       269  gccccccagg caccttctca gccagcagct ccagctcaga gcagtgccag 200
       271  ccccaccgca actgcacggc cctgggcctg gccctcaatg tgccaggctc 250
       273  ttcctcccat gacaccctgt gcaccag 277
       275 <210> SEQ ID NO: 8
       276 <211> LENGTH: 199
       277 <212> TYPE: DNA
       278 <213> ORGANISM: Unknown
       280 <220> FEATURE:
       281 <223> OTHER INFORMATION: Unknown organism
       283 <400> SEQUENCE: 8
       284  gcatcgtgtc cacctggtgc cggcgtgatt gccccgggca cccccagcca 50
       286  gaacacgcag gcctagccgt gccccccagg caccttctca gccagcagct 100
       288  ccagctcaga gcagtgccag ccccaccgca actgcacggc cctgggcctg 150
       290  gccctcaatg tgccaggctc ttcctcccat gacaccctgt gcaccagct 199
       292 <210> SEQ ID NO: 9
       293 <211> LENGTH: 226
       294 <212> TYPE: DNA
       295 <213> ORGANISM: Unknown
       297 <220> FEATURE:
       298 <223> OTHER INFORMATION: Unknown organism
       300 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 12/12/2000
PATENT APPLICATION: US/09/157,289E   TIME: 12:52:44

Input Set : A:\P1134R2 REVISED.txt
Output Set: N:\CRF3\12122000\I157289E.raw

```
      301 <221> NAME/KEY: unsure
      302 <222> LOCATION: 4, 9, 12, 165
      303 <223> OTHER INFORMATION: unknown base
      305 <400> SEQUENCE: 9
W--> 306   agcngtgcnc cncaggcacc ttctcagcca gcagttccag ctcagagcag 50
      308   tgccagcccc accgcaactg cacggccctg ggcctggccc tcaatgtgcc 100
      310   aggctcttcc tcccatgaca cgctgtgcac cagctgcact ggcttccccc 150
W--> 312   tcagcaccag ggtancagga gctgaggagt gtgagcgtgc cgtcatcgac 200
      314   tttgtggctt tccaggacat ctccat 226
      316 <210> SEQ ID NO: 10
      317 <211> LENGTH: 283
      318 <212> TYPE: DNA
      319 <213> ORGANISM: Homo sapiens
      321 <220> FEATURE:
      322 <221> NAME/KEY: Unsure
      323 <222> LOCATION: 1-283
      324 <223> OTHER INFORMATION: Unknown organism
      326 <220> FEATURE:
      327 <221> NAME/KEY: unsure
      328 <222> LOCATION: 27, 64, 140
      329 <223> OTHER INFORMATION: unknown base
      331 <400> SEQUENCE: 10
W--> 332   cttgtccacc tggtgccggc gtgattnccc gggcaccccc agccagaaca 50
W--> 334   cgcagtgcca gccntccccc caggcacctt ctcagccagc agctccagct 100
W--> 336   cagagcagtg ccagccccac cgcaactgca acgccctggn ctggccctca 150
      338   atgtgccagg ctcttcctcc catgacaccc tgtgcaccag ctgcactggc 200
      340   ttccccctca gcaccagggt accaggagct gaggagtgtg agcgtgccgt 250
      342   catcgacttt gtggctttcc aggacatctc cat 283
      344 <210> SEQ ID NO: 11
      345 <211> LENGTH: 21
      346 <212> TYPE: DNA
      347 <213> ORGANISM: Unknown
      349 <220> FEATURE:
      350 <223> OTHER INFORMATION: Unknown organism
      352 <400> SEQUENCE: 11
      353   cacgctggtt tctgcttgga g 21
      355 <210> SEQ ID NO: 12
      356 <211> LENGTH: 22
      357 <212> TYPE: DNA
      358 <213> ORGANISM: Unknown
      360 <220> FEATURE:
      361 <223> OTHER INFORMATION: Unknown organism
      363 <400> SEQUENCE: 12
      364   agctggtgca cagggtgtca tg 22
      366 <210> SEQ ID NO: 13
      367 <211> LENGTH: 53
      368 <212> TYPE: DNA
      369 <213> ORGANISM: Unknown
      371 <220> FEATURE:
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VERIFICATION SUMMARY   DATE: 12/12/2000
PATENT APPLICATION: US/09/157,289E   TIME: 12:52:45

Input Set : A:\P1134R2 REVISED.txt
Output Set: N:\CRF3\12122000\I157289E.raw

```
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
```